## Federal Utility Partnership Working Group Seminar May 2-3, 2019

San Diego Marriott Mission Valley - San Diego, CA





# **Speaker Biographies**

## Sam Alvord

## U.S. Coast Guard

Mr. Alvord is Chief of the Office of Energy Management at the U.S. Coast Guard. He leads the efforts across the entire 88,000-member military service and advises the Assistant Commandant for Engineering and Logistics on all energy policy, financial, and strategic matters. His office is responsible for managing over \$300 million of annual energy expenditures and he is the program manager for a \$240 million portfolio of ESPC and UESC contracts. As a Mechanical Engineer, he served aboard multiple cutters on the East and Gulf coasts before being assigned to teach ship survivability and damage control at the U.S. Navy's Surface Warfare Officers School. Ever since, he has embraced resilience and innovation in all he does - from emergency response-oriented petroleum, water, and medicinal logistics coordination during the Haitian Earthquake and Hurricanes Katrina, Sandy, and the Terrible Trio of 2017 (Harvey, Irma, and Maria), to advancing Coast Guard financial and energy data analytics within a secure cloud IT environment.

## Scott Anders

## Energy Policy Initiatives Center, University of San Diego School of Law

Scott Anders has 20 years of experience in energy and climate policy. Anders is the director of the Energy Policy Initiatives Center (EPIC) at USD School of Law, where he works on regulatory and policy issues related to advancing a low-carbon economy. He has authored and co-authored numerous reports and papers, and is a frequent speaker on topics including energy efficiency, distributed generation, renewable energy, and policies to reduce greenhouse gas emissions.

Prior to joining EPIC, Mr. Anders was a senior manager at the Center for Sustainable Energy (CSE), where he directed regulatory activities and a portfolio of energy programs funded under the auspices of the California Public Utilities Commission. He also worked as a policy researcher for a Washington, D.C. policy think tank and served as a Peace Corps Volunteer in Mali (West Africa). He holds a BA in international politics from Muhlenberg College and an MA in public policy from the University of Maryland's School of Public Policy.

## **Dr. Ray Anderson**

## U.S. Department of Agriculture, Agricultural Research Service, U.S. Salinity Laboratory

Dr. Ray Anderson is a Research Soil Scientist at USDA-Agricultural Research Service (ARS), U.S. Salinity Laboratory in Riverside, CA. Before coming to Riverside, Dr. Anderson was a Research Associate (Research Hydrologist) at ARS-Parlier, and he previously worked at the University of California, Irvine

and the University of Minnesota-Twin Cities. Dr. Anderson's research methods integrate micrometeorological techniques, satellite remote sensing, and climatic observations to research agricultural water use and productivity at field to regional scales. Dr. Anderson's current research interests at ARS include estimating water use and efficiency of orchard crops using field measurements and remote sensing, development and refinement of techniques to observe agricultural evapotranspiration and water use, and integrating global and regional climate models with observational data to assess current and future water availability and quality for irrigated agriculture.

## **Andrew Baughman**

#### **Naval Facilities Engineering Command Southwest**

Andrew Baughman is the Energy Program Director (PW8) for the Public Works Business Line at Naval Facilities Engineering Command Southwest (NAVFAC SW), responsible for both the Energy Conservation Office (ESPC, UESC, Energy Audits) and the Resilient Energy Program Office (REPO) in the Southwest Area of Responsibility (AOR). He has overall responsibility for leading the team that provides technical, financial, and staffing support to both Navy and USMC Installations in the Southwest for the various energy programs and initiatives.

Andrew holds a Bachelor of Science Degree in Chemical Engineering as well as a Master in Business Administration (MBA) with International Finance focus from the University of Kentucky. He is a Registered Professional Engineer (PE) in Chemical Engineering in the State of California as well as a Certified Energy Manager (CEM).

## **Michael Belles**

#### **AECOM Energy**

Michael Belles is a Senior Project Manager at AECOM Energy, and was responsible for the development and implementation of the Battery Energy Storage System at Fort Carson. As a Project Manager, he bridges the gap between project development and implementation, ensuring the work performed will provide the savings guaranteed, and is responsible for executing the design and construction work.

Michael joined AECOM in 2016 after 9 years in the energy services industry. He's developed and delivered over \$100 million in energy conservation projects, including multiple technologies such as solar PV, central heating and cooling plants, and building automation systems.

Prior to working in the energy services industry, Michael was both a Navy Submarine and Civil Engineer Corps Officer and later developed and managed federal base operating services contracts. Michael holds a BS in Mechanical Engineering from the U.S. Naval Academy and an MBA from Chaminade University of Honolulu.

#### **Richard Butterworth**

#### Kutak Rock, LLP

After over 30 years in the Office of General Counsel of the General Services Administration, Richard Butterworth retired from federal service and joined the law firm Kutak Rock as Of Counsel in January of 2018. While at GSA, Richard was a Senior Assistant General Counsel and served as chief counsel to the Office of Energy Procurement, serving as counsel on energy policy matters and acquisition counsel for areawide contracts, national office procurements, and as counsel to the GSA ESPC and UESC PMO. At Kutak Rock, Richard advises clients on a wide range of utility matters, and provides counsel regarding

energy transactions to federal agencies, utility companies, energy service companies and financial services companies. Richard also advised GSA's offices of Real Property Utilization and Disposal, Historic Buildings, Fine Arts and GSA's Office of Government-wide Policy, and his experience includes dealing with the requirements of CERCLA, NEPA and NHPA, among other laws.

## Susan Call

#### Naval Facilities Engineering Command (NAVFAC) HQ

Susan Call is the Energy Data & Systems Division Director for NAVFAC HQ Energy Security Programs. She has more than 17 years of public service and currently oversees the planning, coordination, and integration of energy resiliency projects at NAVFAC in Washington, DC.

Ms. Call served as the Program Manager of the Renewable Energy Program Office within the Atlantic area of responsibility including the continental U.S., Europe, and Southwest Asia, tasked with overall planning, coordination, and integration of renewable energy projects in order to meet Secretary Mabus' goal of producing or procuring 1,000 megawatts (MW) of renewable energy. Previously she served as the NAVFAC PW Utilities and Energy Strategic Source Branch Manager overseeing Renewable Energy, Smart Grid projects, and Utilities Privatization. Before coming to NAVFAC, she worked for both the private sector and governmental agencies specializing in water and wastewater utility infrastructure.

## **Katy Christiansen**

#### National Renewable Energy Laboratory

Katy Christiansen is a Project Manager in the Project Development and Finance Advisory Group at NREL leading resilience and sustainability efforts. She has over fifteen years of experience in strategic planning, project development, and analysis for the defense, federal, and non-profit sectors. Currently Katy serves as a UESC training instructor for the Federal Energy Management Program and an energy assessment analyst for the Army Office Energy Initiatives. Katy holds a Master of Science in Environmental Science and Policy from the Johns Hopkins University and Bachelor of Science degrees in Environmental Studies and Psychology from the University of Utah.

## **Phil Coleman**

#### Lawrence Berkeley National Lab

Phil has worked at Lawrence Berkeley National Laboratory since 1996. In addition to working on behalf of FEMP on its ESPC program, he leads an effort to educate federal facilities on incentives for efficiency and renewable projects, demand response, and "rate-responsive" building operation. Outside of the federal domain, Phil researches avenues for promoting improved energy efficiency in commercial real estate. Internationally, he has worked with the governments of Mexico, India, Chile, and Jordan on developing public sector energy conservation programs.

Before joining the lab, Phil prepared market research for a fast-growth alternative air-conditioning company and conducted residential audits and program evaluations for an energy consulting firm. He holds a Master of Science in energy management and policy from the University of Pennsylvania.

#### **Scott Crider**

#### San Diego Gas & Electric

Scott Crider is Vice President of Customer Services for San Diego Gas & Electric. He oversees all customer-related activities for SDG&E, including customer service, digital channel management and

strategy, customer programs, field and meter operations, revenue cycle activities, and electric rates. He is also leading an initiative to replace the utility's customer information system and digital service portals. Scott serves on the board of directors of Cleantech San Diego and the board of advisors of the UC Davis Energy and Efficiency Institute. Crider has a bachelor's degree in law and society from the University of California, Santa Barbara.

## Allan E. Curlee

#### U.S. Air Force, Office of the Deputy General Counsel (Installations, Energy & Environment)

Allan Curlee is an Associate Counsel in the Installations, Energy and Environment Division, Office of the General Counsel. He advises Secretariat, Air Staff, Air Force Office of Energy Assurance, MAJCOM, Air Force Installation and Mission Support Center, Air Force Civil Engineering Complex, and Base level clients on a variety of matters, focusing on installations issues. His primary practice areas are energy related policy issues, energy acquisition, energy regulatory matters, energy related environmental issues, Air Force energy governance, and energy transactions. He also supports Headquarters Air Force governance and Air Force organization/reorganization, as well as general installations issues, including energy encroachment.

## Emma Elgqvist

#### National Renewable Energy Laboratory

Emma Elgqvist is a research engineer at the National Renewable Energy Laboratory (NREL) in Golden, CO. As part of the REopt team, Emma's work includes providing technical assistance to federal agencies and other entities, and energy modeling of distributed energy technologies for cost savings and resilience. Emma holds a B.S. in Industrial Engineering from Georgia Institute of Technology and an M.S. in Engineering Management from the Colorado School of Mines.

## **Dr. Robert Ivester**

#### Department of Energy Federal Energy Management Program

Dr. Robert W. Ivester is the Director of the Federal Energy Management Program at the U.S. Department of Energy (DOE). He previously served in DOE's Advanced Manufacturing Office for six years and worked at the National Institute of Standards and Technology for over 16 years, leading and performing research in advanced manufacturing. Dr. Ivester has been an instructor for the Johns Hopkins University Engineering for Professionals program for graduate-level studies in manufacturing engineering for 18 years, a Society of Manufacturing Engineers Fellow, and a Fellow of the American Society of Mechanical Engineers. He received his doctorate in engineering and a Bachelor of Science in mechanical engineering and Master of Science in manufacturing engineering from the University of Massachusetts at Amherst.

## Walter Ludwig

#### Office of the Assistant Secretary of Defense for Sustainment - Energy

Mr. Walter Ludwig currently serves as the Director of Energy Performance at the Office of the Assistant Secretary of Defense, Sustainment, where he manages several programs, including Installation Energy Planning, the Energy Resilience and Conservation Investment Program (ERCIP), DoD third-party financing, Utilities Privatization, and metering. He holds a Bachelor of Science in Industrial Engineering from the University of Illinois at Chicago and a Master of Business Administration from the Naval Postgraduate School. He is a registered professional engineer in Georgia.

## **Gordon Maynard**

#### Southern California Gas Company

Gordon Maynard has worked for Sempra Energy Companies over 27 years and currently serves in the role of Team Lead for Southern California Gas Company's Federal Energy Retrofit Program. In that capacity, he supports SoCalGas' UESC project development and project implementation activities. Gordon's 18 years of UESC experience include multiple successful projects on behalf of Navy, Marine, Air Force, and VA customers of both SoCalGas and its sister utility, SDG&E.

Gordon likes problem solving and enjoys finding creative solutions to challenges that often present themselves while implementing energy projects.

Prior to his UESC work, Gordon was a project manager for Sempra Energy Solutions, supporting its ESPC and District Energy Plant businesses. Gordon holds a Bachelor's degree in Engineering, mechanical emphasis, from Cal State Fullerton.

## **Pride Metcalf**

#### Southern California Gas Company

Mr. Pride Metcalf began working for SoCalGas in 2007. Mr. Metcalf has a BS in Business Leadership, which he received from Azusa Pacific University. He has been involved in the high-tech industry as an Applications Engineer, Project Engineer, Account Executive and Project Manager since 1982, specifically in tele/data communications, building management systems, fire life safety, intelligent buildings, and high security installations since 1988. For example, from 1993 to 1995 Mr. Metcalf designed and supervised the installation of the integrated and automated security systems for the J. Paul Getty Museum in Los Angeles, California. More recently, Mr. Metcalf has assisted the Navy by researching, defining, developing, and implementing energy conservation projects, including the integration of the wind turbine generators into the hybrid wind/diesel power system aboard a logistically and environmentally challenging San Nicolas Island.

#### Sandy Morgan

#### U.S. Department of Agriculture, Agricultural Research Service

Sandy Morgan is the Facilities Energy Manager at the USDA Agricultural Research Service. He has been in construction management for over 40 years. He is a Professional Engineer in Virginia and a member of the Virginia Bar. Sandy also has an Associate Degree in Information Systems Technology.

#### **Tracy Niro**

#### **Department of Energy Federal Energy Management Program**

Tracy Niro is the Utility Partnerships Program Manager at the U.S. Department of Energy's Federal Energy Management Program (FEMP). Tracy chairs FEMP's Federal Utility Partnership Working Group (FUPWG) and is a recognized expert in federal energy procurement, alternatively financed projects, performance contracts, and federal energy policy. Tracy began her career in energy as a Staff Accountant at an investor-owned utility. Tracy holds a Bachelor of Arts in Economics from the University of Nevada, Las Vegas, and earned her Juris Doctor from the University of San Diego School of Law.

# Patrick O'Kane

Patrick O'Kane, Director of Program Incentives, has been helping AECOM and its partners navigate the financial benefits of the Energy Efficient Commercial Tax Deduction known as 179D. Enacted as part of the Energy Policy Act of 2005, this program encourages building owners to increase energy efficiency by providing immediate tax deductions.

## **Ken Parks**

#### San Diego Gas & Electric

Over the course of his 40 years with SDG&E, Ken Parks has held various positions of increasing responsibility in the areas of power plant maintenance, electric distribution system and customer project planning and design. In his current role as Customer Generation Manager in SDG&E's Electric System Planning & Grid Modernization organization, Ken's primary responsibility is the development and implementation of the requirements and processes for the safe and reliable interconnection of electricity generation systems to SDG&E's electric distribution grid. During his tenure as Customer Generation Manager, over 150,000 customers, including residential customers using rooftop solar, large industrial customers using multi-MW cogeneration systems, and merchant generators participating in the wholesale electricity market, have successfully interconnected their generation systems to SDG&E's grid.

## Joe Pierzina

#### San Diego Gas & Electric

Joe Pierzina began his tenure with SDG&E in Supply Management, where he took on increased responsibility within the department, eventually managing portfolios of utility spend including Professional Services and Electric Construction & Materials. In 2013, he moved to a position in Federal Accounts as the Federal Accounts Turnkey Manager. In that capacity, Joe oversaw and managed the development and implementation of the company's extensive Utility Energy Service Contract (UESC) projects with the federal government. In 2018, Joe was promoted to Federal Accounts Manager and along with retaining his UESC group, he also became responsible for all aspects of SDG&E's relationship with its largest customers, the federal government.

## **Kevin Powell**

#### Public Buildings Service, General Services Administration

Kevin M. Powell is the Director of Emerging Building Technologies for the General Services Administration. Mr. Powell focuses on identifying innovative technologies, practices, and processes that optimize how GSA designs, delivers, and operates more than 185 million square feet of Federal real estate. Kevin brings two decades of experience in building science, design research, and policy analysis. Kevin manages a portfolio of over twenty active test bed projects in the areas of next generation building envelope, energy management, HVAC, lighting, and lighting control systems.

Kevin has a longstanding commitment to smart asset management, deployment of next generation building technologies, and indoor environmental quality. He received his Master's degree in Architecture from the University of California at Berkeley, and has published numerous articles about acoustics, workplaces, next generation building strategies, and urban design.

## **Schuyler Schell**

#### Department of Energy Federal Energy Management Program

Schuyler Schell supervises Project Procurement and Distributed Generation Services at DOE's Federal Energy Management Program (FEMP). FEMP assists Federal Agencies in their efforts to achieve high levels of energy and cost efficiency and resiliency in their facilities. Mr. Schell leads the FEMP Program relating to DOE's ESPC, UESC, Distributed Energy Project and Procurement support, DOE Utility Contract Oversight, and other initiatives.

Before coming to DOE, Mr. Schell served in a variety of capacities at a leading housing finance Government Sponsored Enterprise in McLean, VA. These roles included: Director of Sales and Integration, Director of Structured Transactions, and Director of Marketing Strategy and Planning. Earlier in his career, Mr. Schell was Vice President for Secondary Marketing and Product Development for a Dallas-based mortgage company and was an economist and the Director of Government Agency Relations for a trade association in Washington.

## **Chandra Shah**

#### National Renewable Energy Laboratory

Ms. Shah is a Senior Project Leader with the National Renewable Energy Laboratory. She has supported the FEMP program since 1998 and has over 15 years of experience helping federal partners reduce costs using distributed energy through utility partnerships, PPAs, and ESPC Energy Sales Agreements. She holds an MBA from the University of Washington and a Bachelor of Science in Mechanical Engineering from the University of Michigan.

## **Randy Smidt**

#### **Department of the Army**

Randy Smidt is the ESPC/UESC Program Manager in the Army HQ, Office of the Assistant Chief of Staff for Installation Management, and has overseen the execution of over \$1 billion in third-party investment in the last five years, winning the FEMP Director's award in 2016 for the efforts of the Army ESPC/UESC team. Mr. Smidt has 30 years of experience in energy engineering, working as a consultant to utilities, ESCOs, commercial and federal clients, before becoming the energy manager at Fort Belvoir and later moving to Army Headquarters. Randy also serves on the Federal Council of the Federal Utility Partnership Working Group as well as the Federal ESPC Steering Committee.

## **Elizabeth Stuart**

#### Lawrence Berkeley National Laboratory

Elizabeth (Liz) Stuart is a researcher and program manager with LBNL's Electricity Markets and Policy Group. Since joining the Lab in 2009, Liz has been lead or co-author on two dozen LBNL reports, policy briefs and peer-reviewed journal articles whose topics include ESCO industry market and project trends, energy benchmarking policies, ratepayer-funded energy efficiency programs, M&V, and integrated demand-side management. Liz leads development and stakeholder engagement for eProject Builder, the DOE energy project data management system.

Prior to joining LBNL, Liz garnered over 12 years' experience managing projects in the entertainment software industry. She worked in the City of Berkeley Mayor's office on the Berkeley FIRST solar financing program (the progenitor of PACE financing). Liz holds an MBA in Sustainable Management

from Presidio Graduate School in San Francisco, and a BA in Radio-TV-Film from the University of Arizona.

## J.E. "Jack" Surash

#### Office of the Assistant Secretary of the Army for Installations, Energy and Environment

Mr. J. E. "Jack" Surash, P.E., became Acting Deputy Assistant Secretary of the Army (Energy & Sustainability) in September 2016. In this position, he is responsible for overall program direction, establishment of policies, development and refinement of strategies, and oversight for implementation of all programs and initiatives related to Energy Security and Sustainability within the Army. As the Army's Senior Energy Executive, Mr. Surash coordinates and integrates both installation (traditional as well as expeditionary) and operational energy programs and strategies.

Mr. Surash comes to the Pentagon from the Department of Energy's Office of Environmental Management (EM), where he served as the Deputy Assistant Secretary for Acquisition and Project Management. In that position, he led efforts for EM's annual \$6 billion portfolio, served as EM's Head of Contracting Activity, oversaw procurement planning, contract management, and provided project management support. Prior to that role, he was Director of the National Nuclear Security Administration's Office of Infrastructure and Facilities Management. Mr. Surash was selected for the Senior Executive Service in September 2005.

## **Karen Thomas**

#### National Renewable Energy Laboratory

Karen Thomas is the national laboratory lead for the Department of Energy Federal Energy Management Program (FEMP) Utility Energy Services Contract (UESC) program. She is an expert advisor in supporting federal agency development of UESC projects. Karen developed curriculum and leads instruction of the internationally accredited UESC training courses for Federal agencies and regulated utilities. She works with utilities to build new partnerships and grow the number of utilities offering UESC programs. Before coming to NREL in 1994, she spent 16 years designing distribution systems and serving as a rate analyst at a large investor-owned utility. Karen holds a B.S. in Business Administration and Marketing from Morgan State University, and pursued her M.B.A. at Howard University.

## Deb Vásquez

#### National Renewable Energy Laboratory

Deb Vásquez, a Senior Program Leader at the National Renewable Energy Laboratory (NREL), is NREL's technical lead for the U.S. Department of Energy's Federal Energy Management Program (FEMP) utility energy service contracts team. She provides technical support to Federal Agency and Utility teams implementing UESC projects. As the technical lead, she develops acquisition and technical training materials and resources to assist efforts and results of federal government energy projects that leverage utility industry capabilities and private financing to improve federal government facilities infrastructure. Deb also co-instructs FEMP UESC in-person and web training.

## **David Wagner**

#### **Department of Veterans Affairs Energy Management Program**

David Wagner is the Energy Investment Program Manager for VA's Energy Management Program. In this capacity, he oversees the implementation of the Energy Management Program's direct funded energy projects. The current portfolio includes over 43 megawatts of CHP and 95 megawatts of solar

generation. David is also the Energy Management Program's primary liaison for performance contracting in Veterans Integrated Service Networks 17 through 23, which comprises the western half of the United States, Alaska, and Hawaii.

David grew up in Massachusetts. Before working at VA, David was an officer in the United States Air Force, where he was a nuclear ICBM crew commander. After leaving the Air Force, David earned his law degree from Temple University. David lives in Philadelphia with his wife Anne and his daughter Elena. He has a passion for renewable energy, photography, and is an avid camper and hiker.

#### **Mick Wasco**

#### **Marine Corps Air Station Miramar**

Mick Wasco is the Utilities and Energy Management Branch Head at Marine Corps Air Station (MCAS) Miramar. He is responsible for the installation's energy and water efficiency, renewable, security, and behavior programs. At MCAS Miramar, the assets managed include over 1.5 MW of distributed PV systems, a 3.2 MW PPA for landfill power, central HVAC control system, advanced metering, a base wide reclaimed water utility system, and smart irrigation controllers. The installation will soon have an installation-wide microgrid as well as large scale energy storage for complete energy resilience. Mick has a BS in Structural Engineering from the University of California, San Diego. He is a licensed Professional Engineer in California for Civil, a Certified Energy Manager by the Association of Energy Engineers, and a certified Project Management Professional by the Project Management Institute.

## **Brandy Wilkerson**

#### U.S. Army Corps of Engineers, Huntsville Center

Brandy Wilkerson has a background in Accounting and Finance. She received her Bachelor of Science Degree with a major in Accounting in 2004 from Strayer University. She completed her Masters of Business Administration with a double major of Accounting and Finance from Columbia College of Missouri in 2008. She began her employment with United States Army Corps of Engineers in 2010 working for the Chemical Demilitarization Program, after 3 years she moved to the Information Technology Program as a Specialist. She is now in the Energy Program as the Utility Energy Service Contracts (UESC) Project Manager. She is currently responsible for projects valued at \$894 million and has successfully awarded \$234 million to date. Her professional goal of developing strong relationships is the foundation of her actions and her success.

## **Ted Wittmer**

#### **Department of Defense – ODASD Energy**

Mr. Ted Wittmer's career includes control systems engineering and public sector consulting experience. He currently advises and oversees the strategic cybersecurity effort to protect the control systems and operational technology (OT) enabling the Department of Defense's (DoD) critical infrastructure. For the past two years, Mr. Wittmer has brought awareness to the ever-increasing cyber threat to unprotected connected OT devices and has led the government to make change. Specifically, he has successfully advocated to change DoD policy, standards, and academic curricula, while initiating and supporting the first comprehensive facilities related control systems cybersecurity program of its kind within the federal government.

## Krysta Zurowski

#### U.S. Army Corps of Engineers, Huntsville Center

Krysta Zurowski has a background in Interior Design and Project Management. She received her bachelor's degree from The Art Institute of Pittsburgh in Interior Design in 2008 and her Masters in Project Management with a Concentration in Acquisition and Contract Management in 2013. She began her government career with the Army Corps of Engineers, Huntsville Center in 2010 as an Interior Designer on the Furniture Program. She transitioned to a Project Manager with the Furniture Team in 2014 and then began with the Energy Division as a Project Manager for the Power Purchase Agreement (PPA) Program in 2015. In 2018, she was selected as the Utility Energy Services (UESC) Program Manager. In February, HNC decided to move the Power Purchase Agreement (PPA) Program under UESC. Since she began as Program Manager, she has worked to enhance connections with the Utility and ESCO communities to build relationships and create the most proficient and dynamic UESC and PPA Programs in the industry.